

## Switch-mode filtered controlled battery chargers - CDS3 Range

- **MARINE**
- **INDUSTRY**
- **DEFENSE**



The CDS3 battery charger range is designed to bring to more innovation for your installation:

- An extended range of charger powers
- 11 battery settings such as Lead-sealed, Calcium-Lead, AGM, Gel, etc.
- Additional remote information for batteries and charger state
- Additional terminal to connect an external battery isolator for additional battery banks
- High level of efficiency.
- Power-sharing function (parallel-mounting) for up to 6 chargers.

### Standard range

Description	Item code	Output current (A)	Number of outputs	Protection	Dimensions H*L*D (mm)	Weight
<b>12 Vdc range</b>						
CDS3 12/80	SEEL010304	80	3	IP22	262*350*120	7.5 kg
CDS3 12/100	SEEL010305	100	1	IP22	400*350*100	12 kg
<b>24 Vdc range</b>						
CDS3 24/60	SEEL010309	60	3	IP22	262*350*120	7.5 kg
CDS3 24/75	SEEL010310	75	3	IP22	262*350*120	7.5 kg
CDS3 24/120	SEEL010311	120	1	IP22	400*350*100	14 kg
CDS3 24/150	SEEL010312	150	1	IP22	400*350*100	14 kg
<b>48 Vdc range</b>						
CDS3 48/30	SEEL010314	30	3	IP22	262*350*120	7.5 kg
CDS3 48/60	SEEL010315	60	1	IP22	400*350*100	12 kg

# Main technical specification

## Input :

- Voltage: from 85 to 265 VAC single-phase (automatic except for model 24-150: 304/552Vac 3-phase).
- Frequency: from 47 to 63 Hz (automatic).

## Output :

- 12 Vdc, 24 Vdc or 48Vdc.
- Output voltage adjustment by internal potentiometer (factory set).

## Technology :

- Switch mode technology.
- 3 automatic charge cycles: boost, absorption, floating. Floating voltage IU through internal setting.
- 4 hours boost duration.

## Output electrical characteristics :

- Regulation:  $\pm 1\%$ .
- Residual ripple:  $< 200$  mV.
- Typical efficiency:  $> 80\%$  at rated conditions.
- Power limitation through external bipolar switch for models 12/80, 12/100, 24/60, 24/75, 24/120, 48/30 and 48/60.
- Power factor: 0.9 at rated conditions.

## Display :

- 3 LEDS monitor the AC presence and the charge phase.
- Green LED : mains presence
- Yellow LED : Boost / Absorption
- Yellow LED : Floating
- Voltmeter and ammeter output on internal terminal.
- Output on dry contact :
  - Charger fault
  - Battery low voltage

## Protections :

- Fuses on input and output.
- Short-circuits, polarity reversal, over-voltage, over-heating, over-current.
- Thermal protection.
- Electronic board water-proof and tropicalized varnish.

## Presentation :

- Metal and plastic case
- Protection: IP22 or IP 23 (check model).
- AC Input connection: on screw terminal with clamp through plastic gland.
- Specific connection area (AD, DC connection, charger settings) for safe installation.
- Easy access to this area using a removable blue housing.
- DC output connection on threaded rod.
- Additional terminal to connect an external battery isolator except on models 12/120, 24/120, 24/150 and 48/60.
- Polyester finish. Matt black RAL9011, grey RAL7035 and blue RAL5012.
- Salt atmosphere resistant.

## Climatic specifications:

- Operating temperature:  $-10$  to  $+55^{\circ}\text{C}$ , (derating over  $50^{\circ}\text{C}$ )
- For temperature  $> 65^{\circ}\text{C}$  automatic stop – automatic restart.
- Storage temperature:  $-20$  to  $70^{\circ}\text{C}$ .
- Humidity: 0 to 95 % without condensation.

## Standards :

- CE
- RoHS

FC-CDS3-EN-B

The information contained in this leaflet is not of a contractual nature. ENAG reserves the right to amend the technical details of its products without advance notice.

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